

FIG. 1

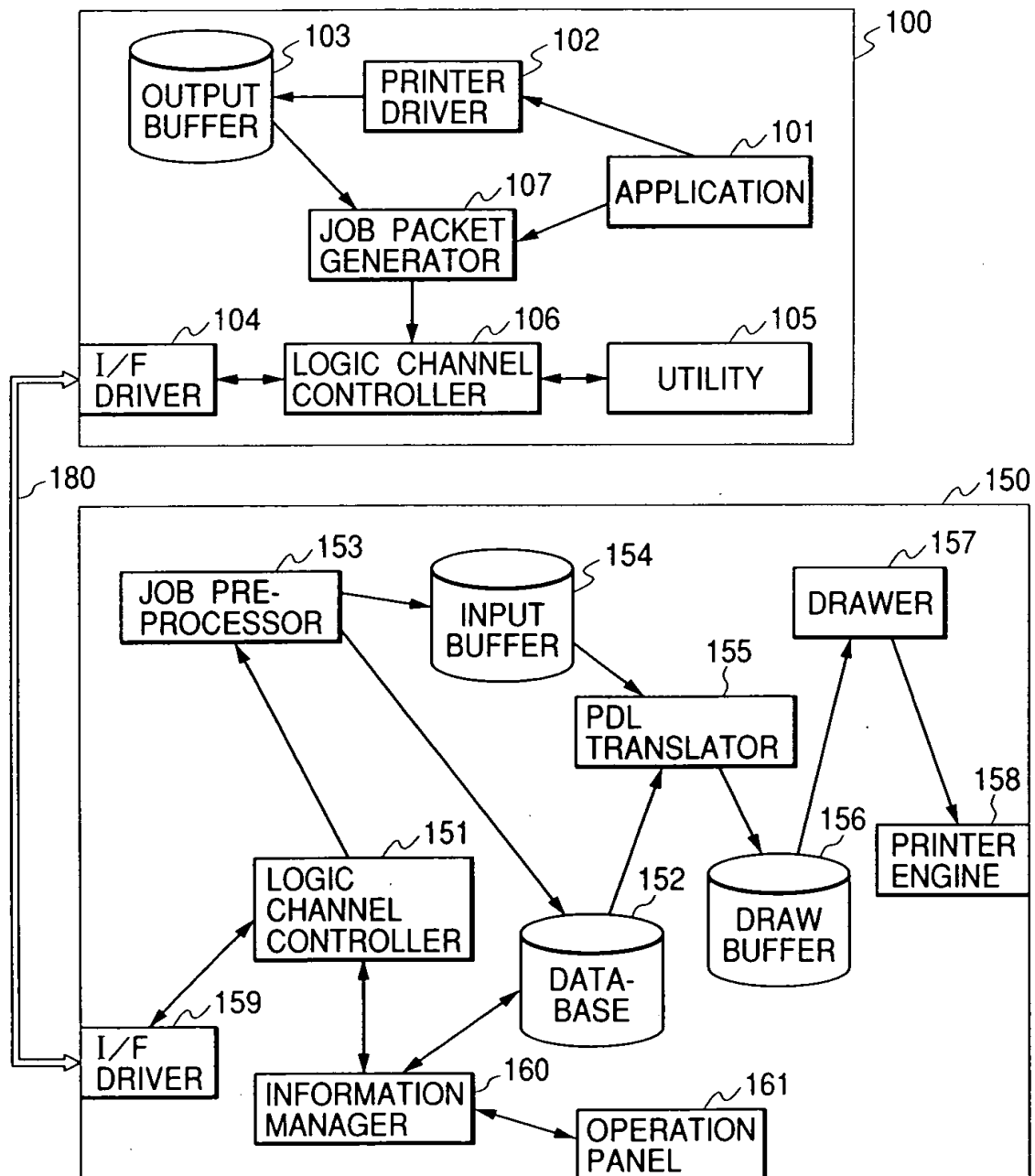
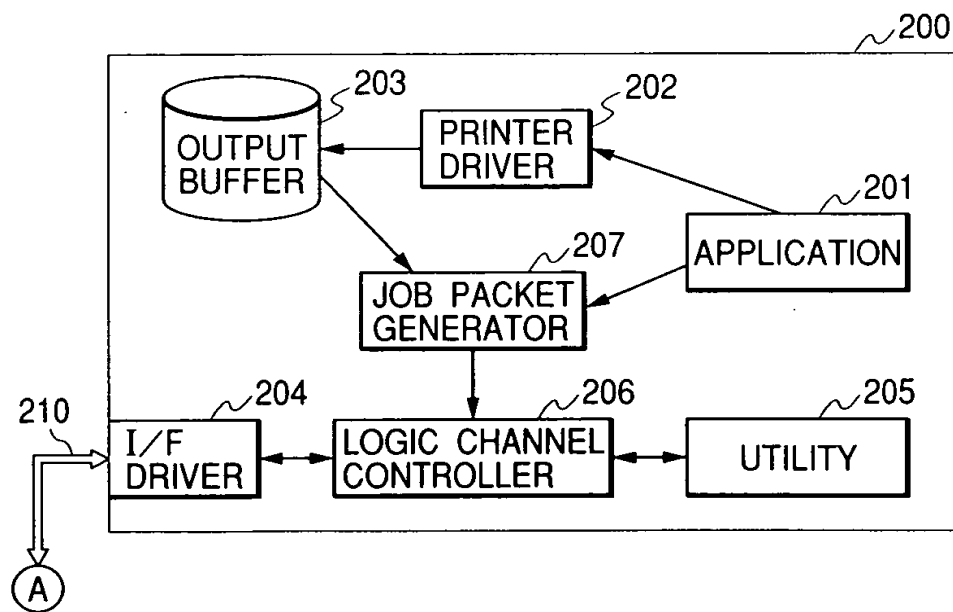


FIG. 2



The block diagram illustrates the architecture of a printing system 300. The components and their interconnections are as follows:

- System Boundary 300:** A large rectangle enclosing the internal components.
- External Interface 311:** A vertical double-headed arrow at the top left, connected to the **I/F DRIVER 301**.
- I/F DRIVER 301:** A rectangular block at the top left, connected to the **LOGIC CHANNEL CONTROLLER 302** and the **INFORMATION MANAGER 310**.
- OPERATION PANEL 314:** A rectangular block at the top right, connected to the **INFORMATION MANAGER 310**.
- INFORMATION MANAGER 310:** A central rectangular block connected to the **LOGIC CHANNEL CONTROLLER 302**, **DATA-BASE 305**, **INTERRUPT PROCESSOR 312**, **SUSPEND/RESUME PROCESSOR 315**, and **PRINTER ENGINE 309**.
- LOGIC CHANNEL CONTROLLER 302:** A rectangular block on the left, connected to the **I/F DRIVER 301**, **INFORMATION MANAGER 310**, **JOB PRE-PROCESSOR 303**, and **DATA-BASE 305**.
- DATA-BASE 305:** A cylindrical database block connected to the **INFORMATION MANAGER 310**, **JOB PRE-PROCESSOR 303**, **JOB TABLE 313**, and **PROMOTE PROCESSOR 316**.
- JOB PRE-PROCESSOR 303:** A rectangular block connected to the **LOGIC CHANNEL CONTROLLER 302**, **DATA-BASE 305**, **JOB TABLE 313**, and **JOB SPOOLER 304**.
- JOB TABLE 313:** A rectangular block connected to the **DATA-BASE 305**, **JOB PRE-PROCESSOR 303**, and **PDL TRANSLATOR 306**.
- JOB SPOOLER 304:** A cylindrical block connected to the **JOB PRE-PROCESSOR 303** and **PDL TRANSLATOR 306**.
- INTERRUPT PROCESSOR 312:** A rectangular block connected to the **INFORMATION MANAGER 310**, **PROMOTE PROCESSOR 316**, and **DRAWER 308**.
- SUSPEND/RESUME PROCESSOR 315:** A rectangular block connected to the **INFORMATION MANAGER 310**, **PROMOTE PROCESSOR 316**, and **DRAWER 308**.
- PROMOTE PROCESSOR 316:** A central rectangular block connected to the **DATA-BASE 305**, **INTERRUPT PROCESSOR 312**, **SUSPEND/RESUME PROCESSOR 315**, **PDL TRANSLATOR 306**, and **DRAWER 308**.
- PDL TRANSLATOR 306:** A rectangular block at the bottom connected to the **JOB TABLE 313**, **JOB SPOOLER 304**, **INTERRUPT PROCESSOR 312**, **SUSPEND/RESUME PROCESSOR 315**, and **DRAW BUFFER 307**.
- DRAW BUFFER 307:** A cylindrical block connected to the **PDL TRANSLATOR 306** and **DRAWER 308**.
- DRAWER 308:** A rectangular block on the right connected to the **INTERRUPT PROCESSOR 312**, **SUSPEND/RESUME PROCESSOR 315**, **PROMOTE PROCESSOR 316**, and **PRINTER ENGINE 309**.
- PRINTER ENGINE 309:** A rectangular block at the bottom right, connected to the **INFORMATION MANAGER 310** and **DRAWER 308**.

FIG. 4

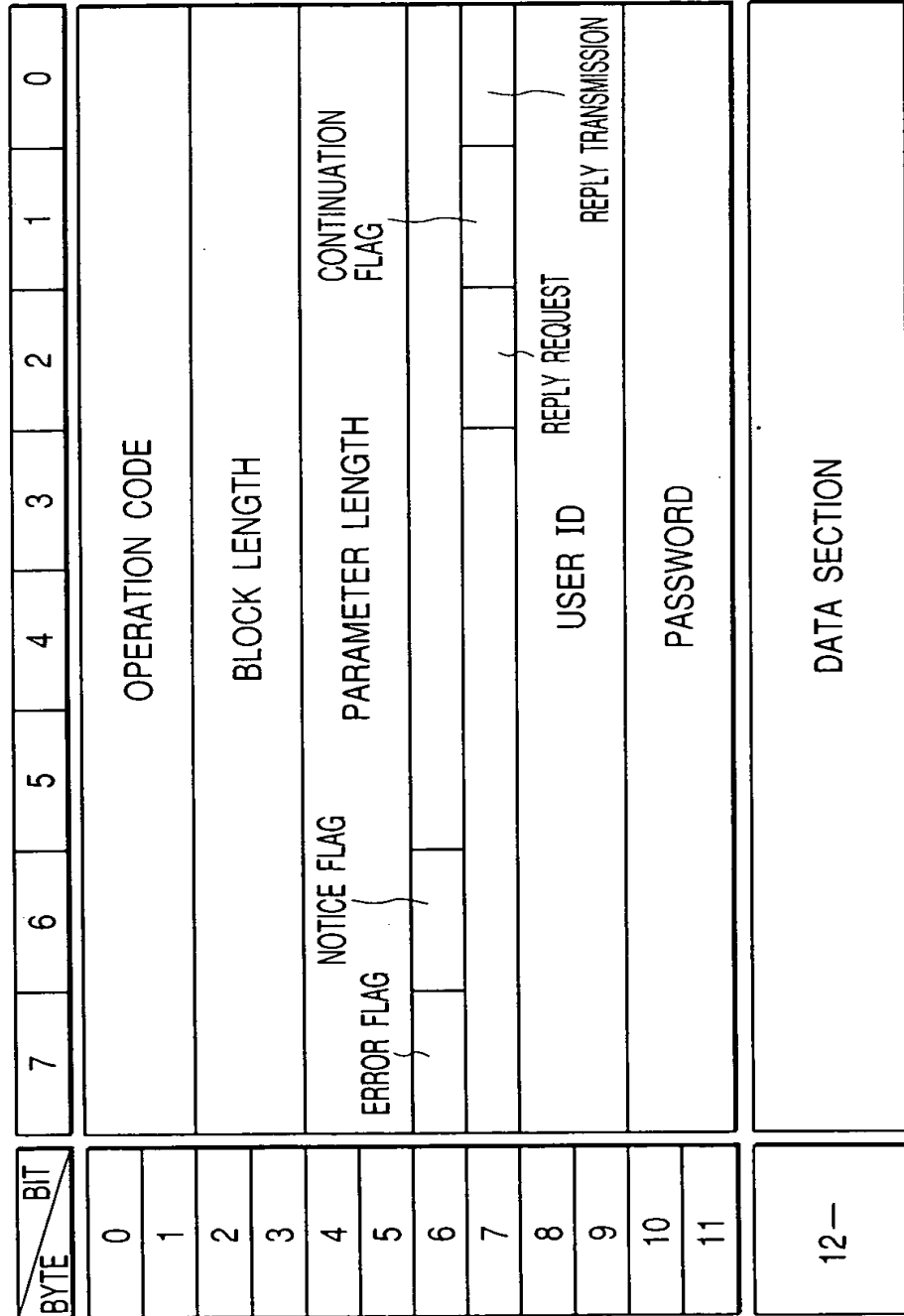


FIG. 5

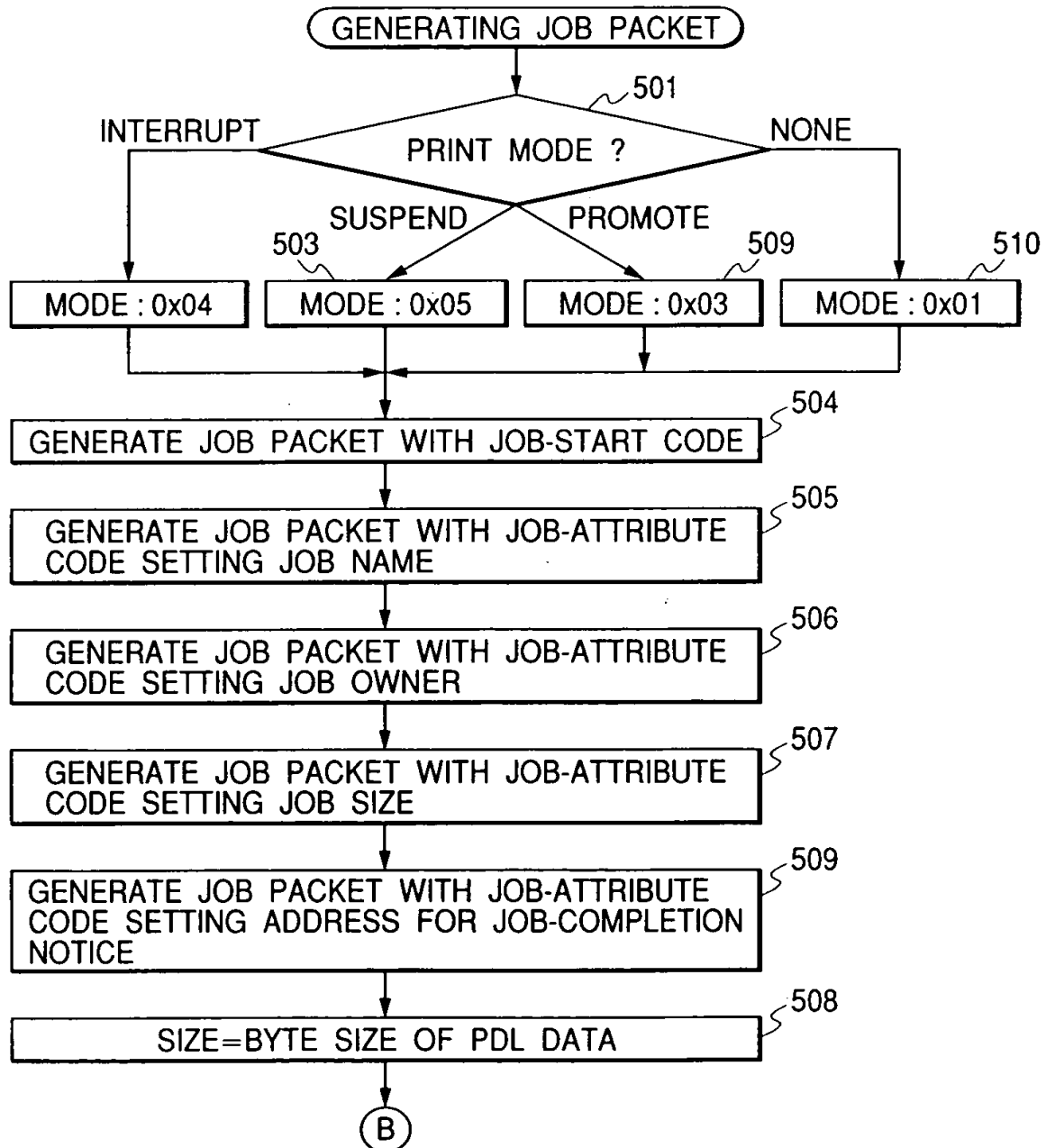


FIG. 6

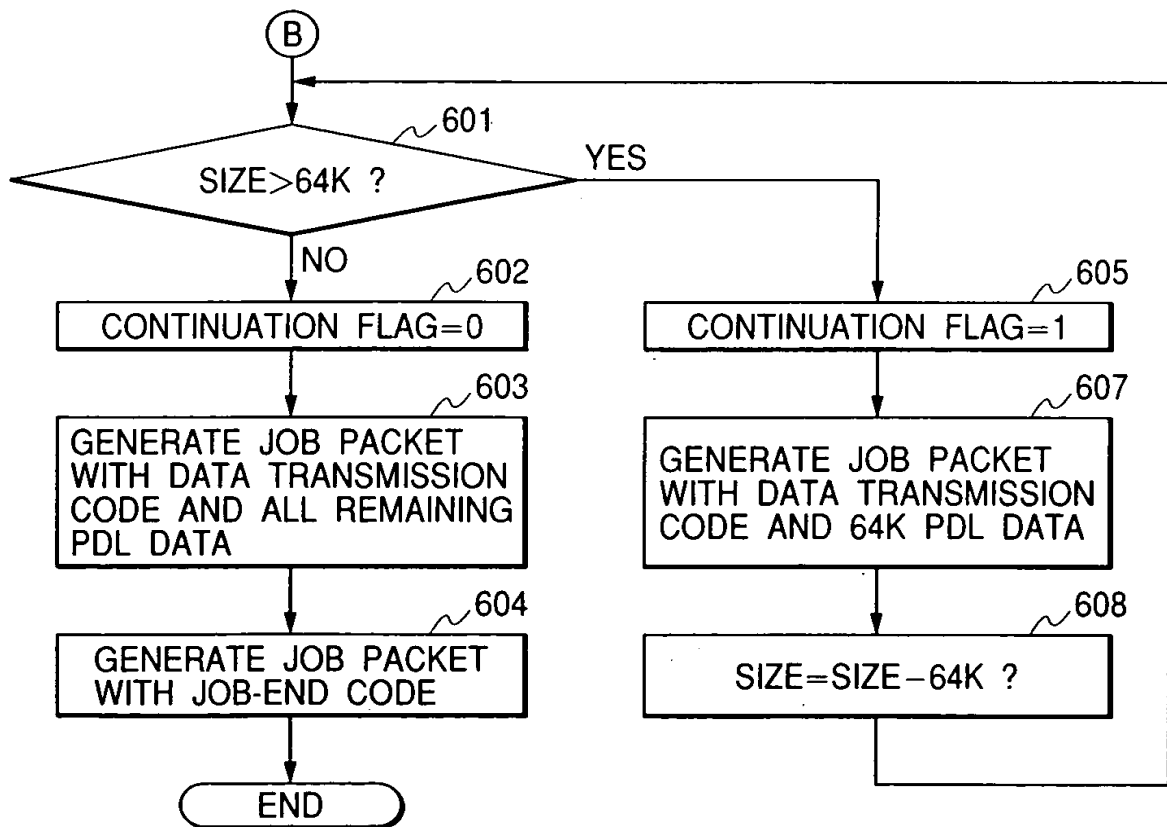


FIG. 7

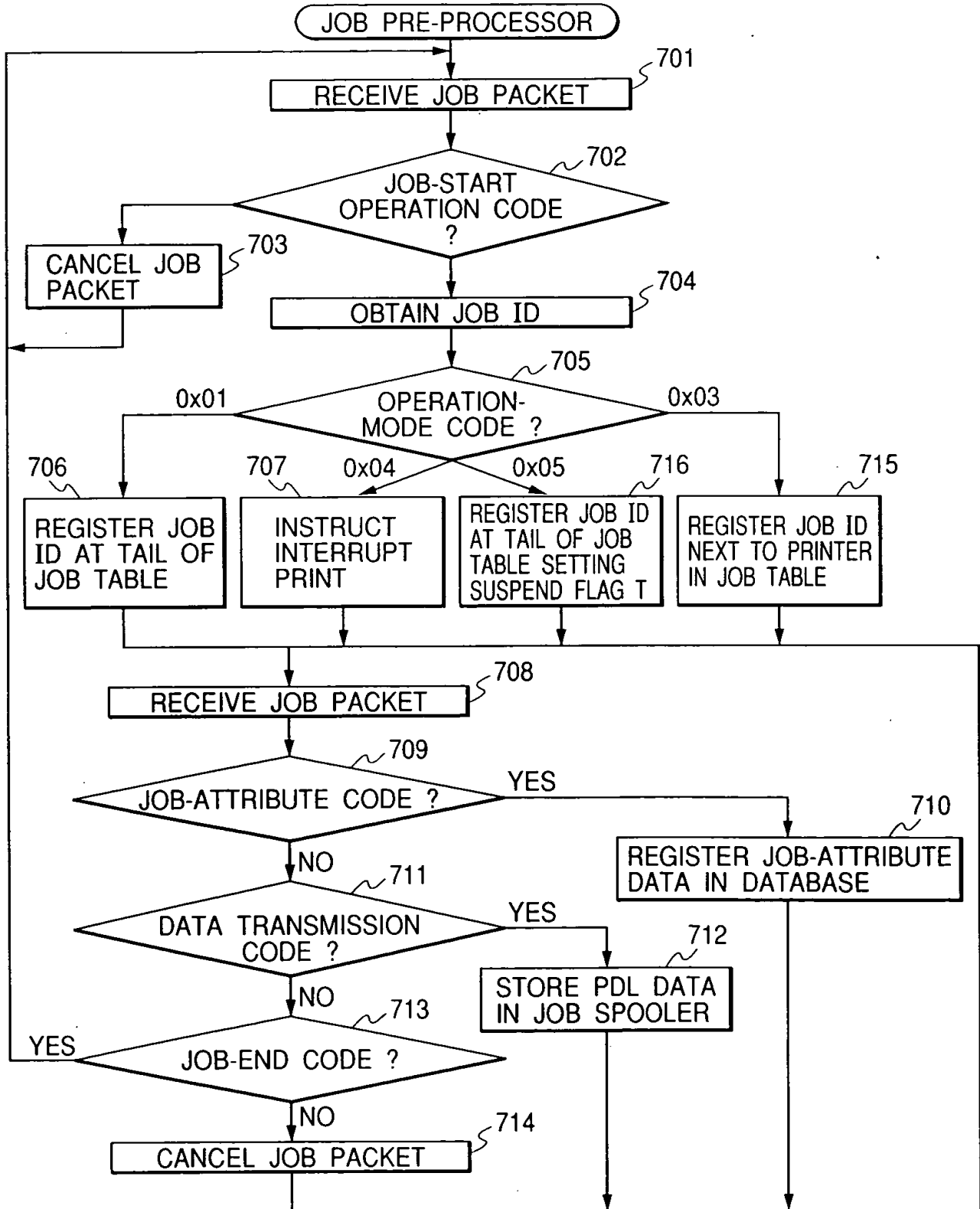


FIG. 8

POINTER
801

JOB ID	SUSPEND FLAG
1	F
2	F
3	F
4	F

8-1

POINTER
801

JOB 5
ADDED

JOB ID	SUSPEND FLAG
1	F
2	F
3	F
4	F
5	F

8-2

POINTER
801

JOB ID	SUSPEND FLAG
2	F
3	F
4	F
5	F

JOB 1
COMPLETED OR
CANCELLED

8-3

FIG. 9

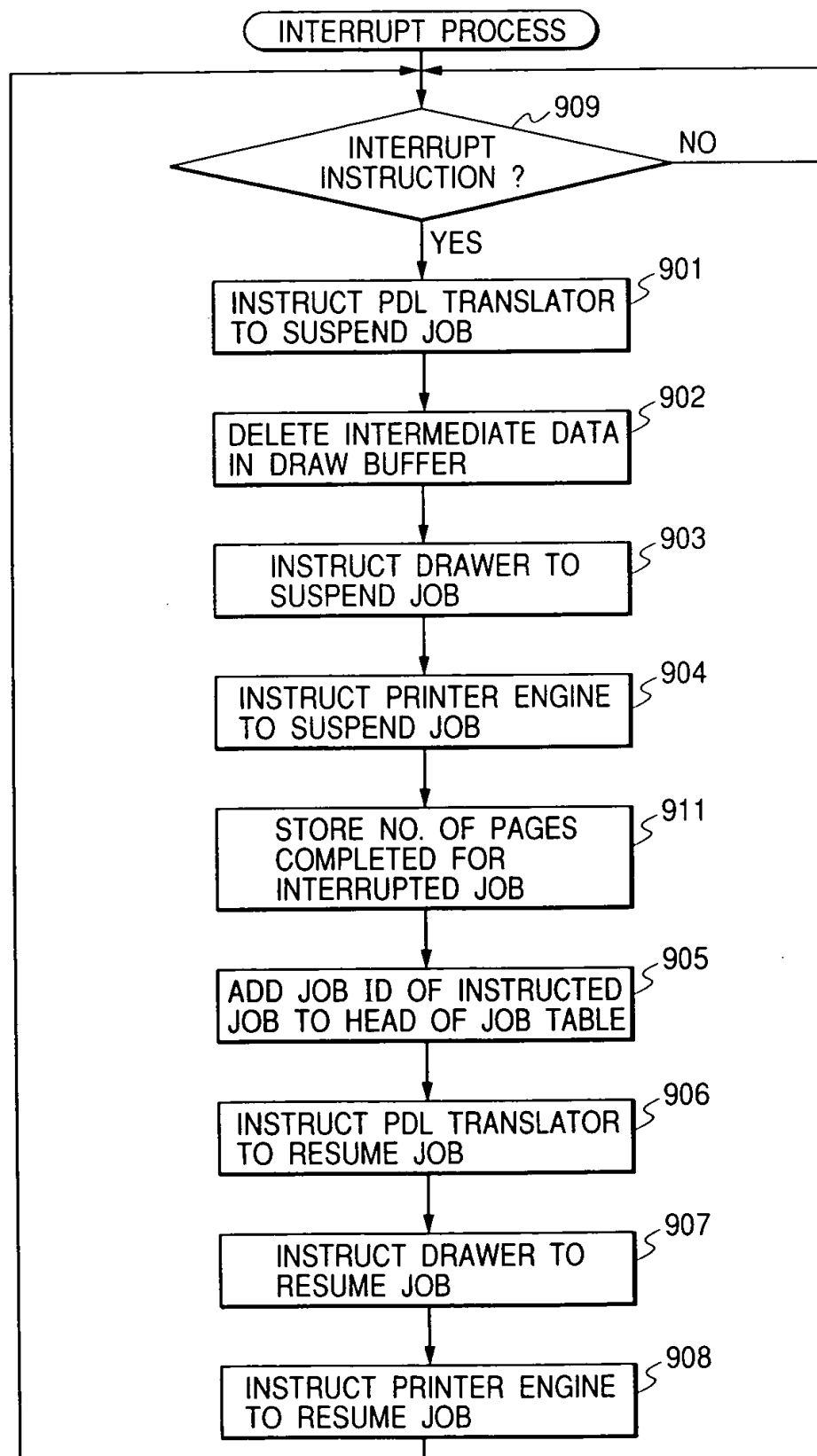
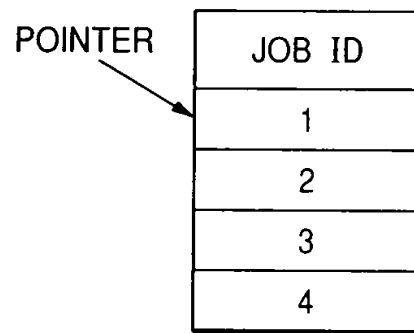
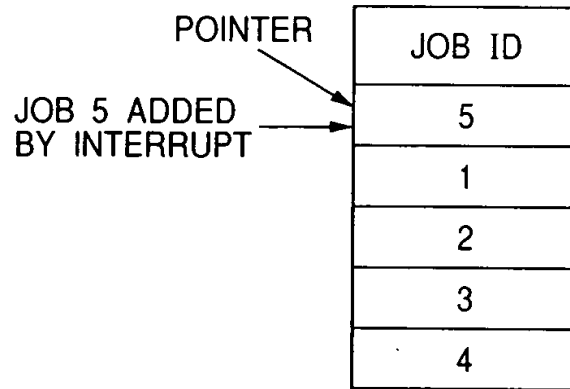


FIG. 10

10-1



10-2

FIG. 11

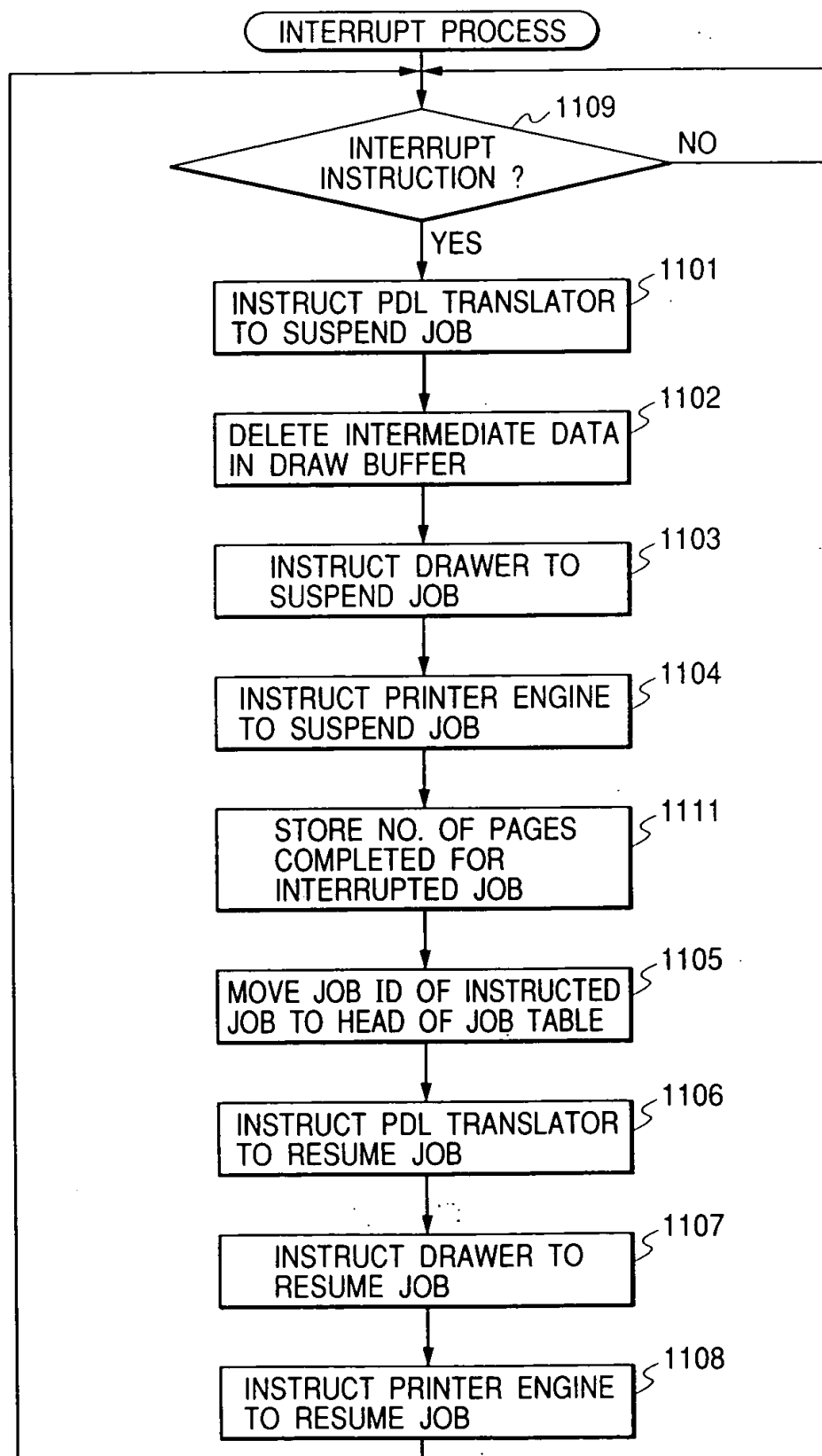


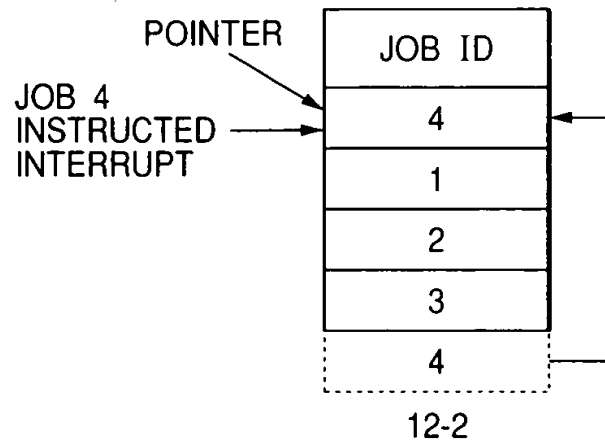
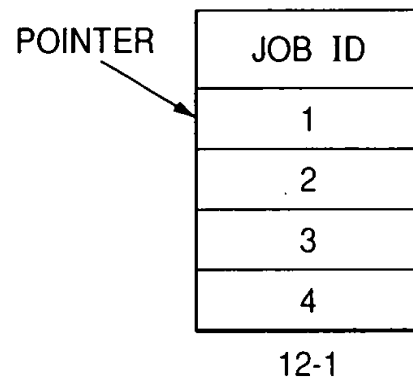
FIG. 12


FIG. 13

PROPERTY OF CANON LASER SHOP LBP-2260

MAIN PAPER LAYOUT **DEVICE OPTION** OVERLAY EJECT PAGE COMPOSER

OPERATION ☒ **PRINT (R)**
MODE : ☐ INTERRUPT PRINT (I)
☐ SUSPEND PRINT (E)
☐ PROMOTE PRINT (B)

☐ MOUNT SORTER (L)

PAPER
EJECT (F):  NO DESIGNATION ▼

EJECT TO (O): **EJECT TRAY** ▼

☐ PRINT BY COPY UNIT WITH HARD DISK (M)

RETURN TO STANDARD (D)

OK CANCEL **APPLY (A)** HELP

FIG. 14

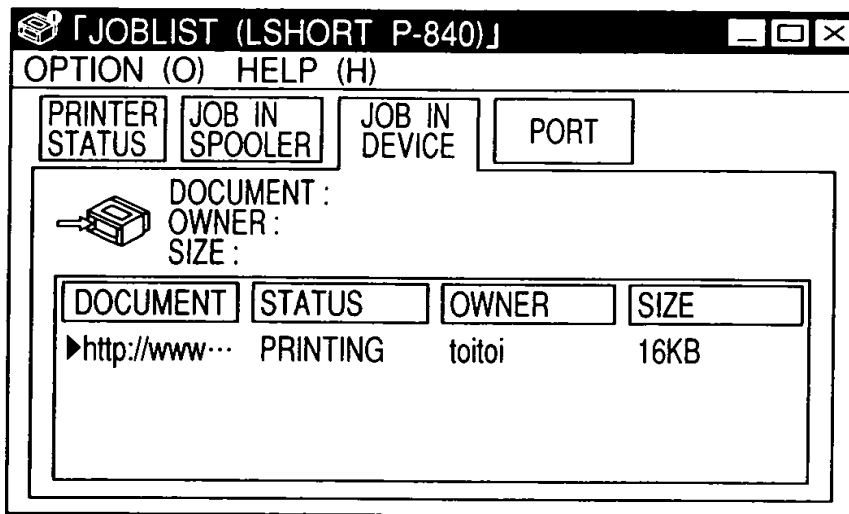


FIG. 15

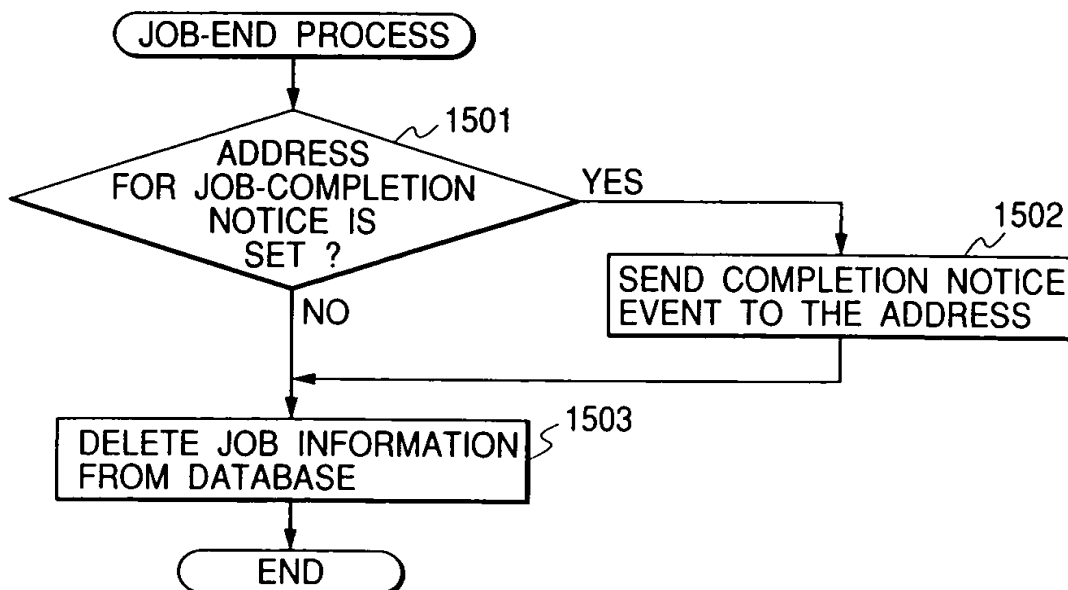


FIG. 16

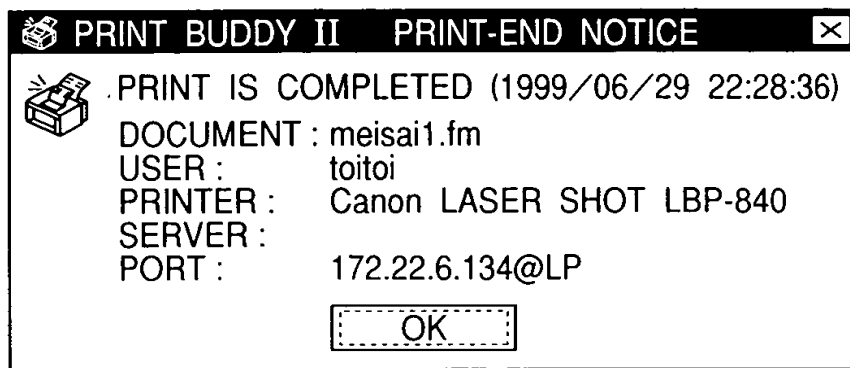


FIG. 17

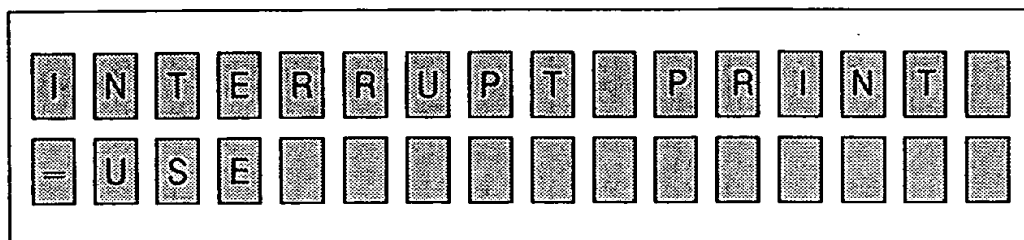


FIG. 18

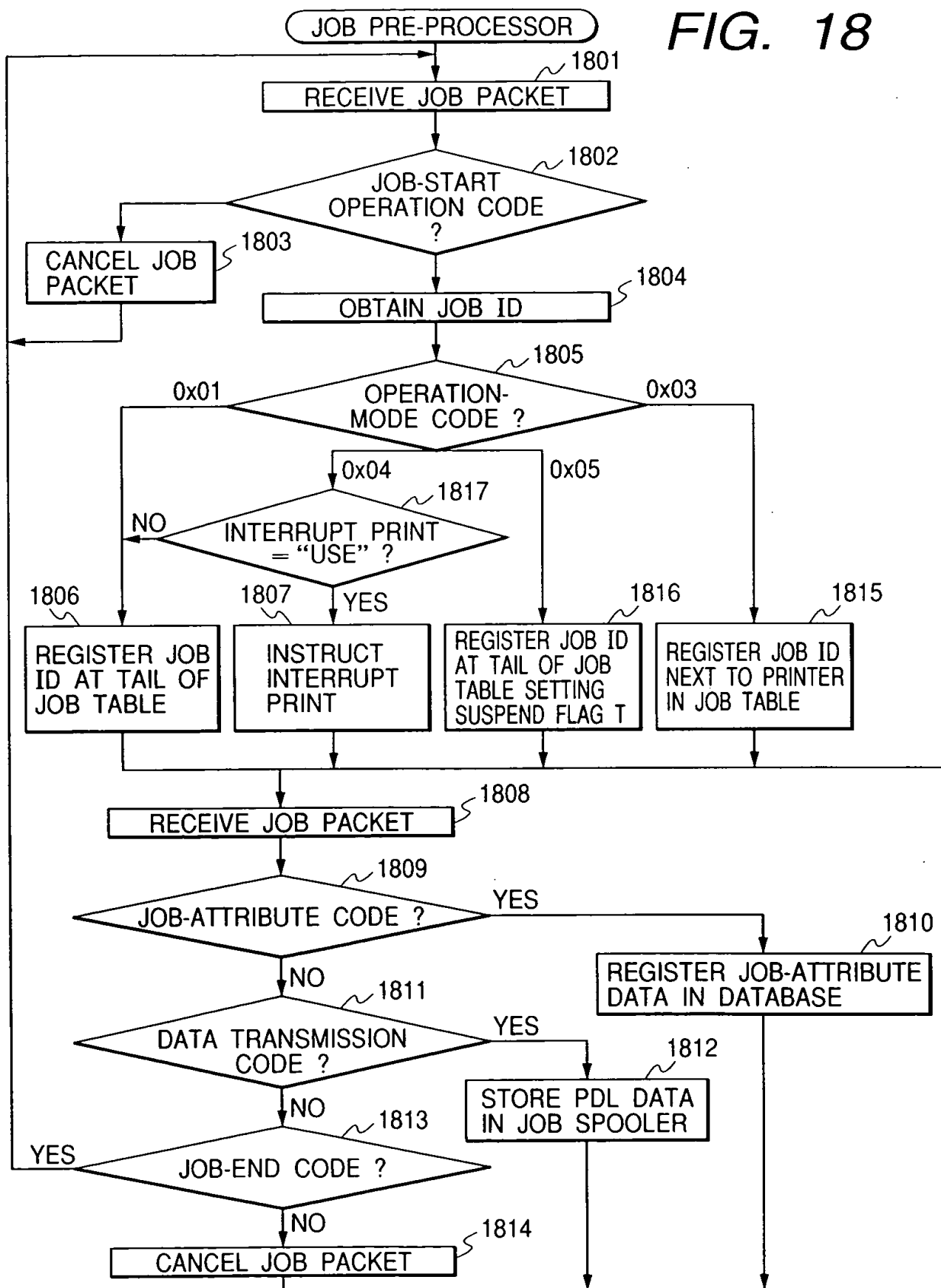


FIG. 19

POINTER →

JOB ID	SUSPEND FLAG
1	F
2	F
3	F
4	T

19-1

POINTER →

JOB 5 ADDED →

JOB ID	SUSPEND FLAG
1	F
2	F
3	F
5	F
4	T

19-2

POINTER →

JOB ID	SUSPEND FLAG
2	F
3	F
5	F
4	T

JOB 1
COMPLETED

19-3

FIG. 20

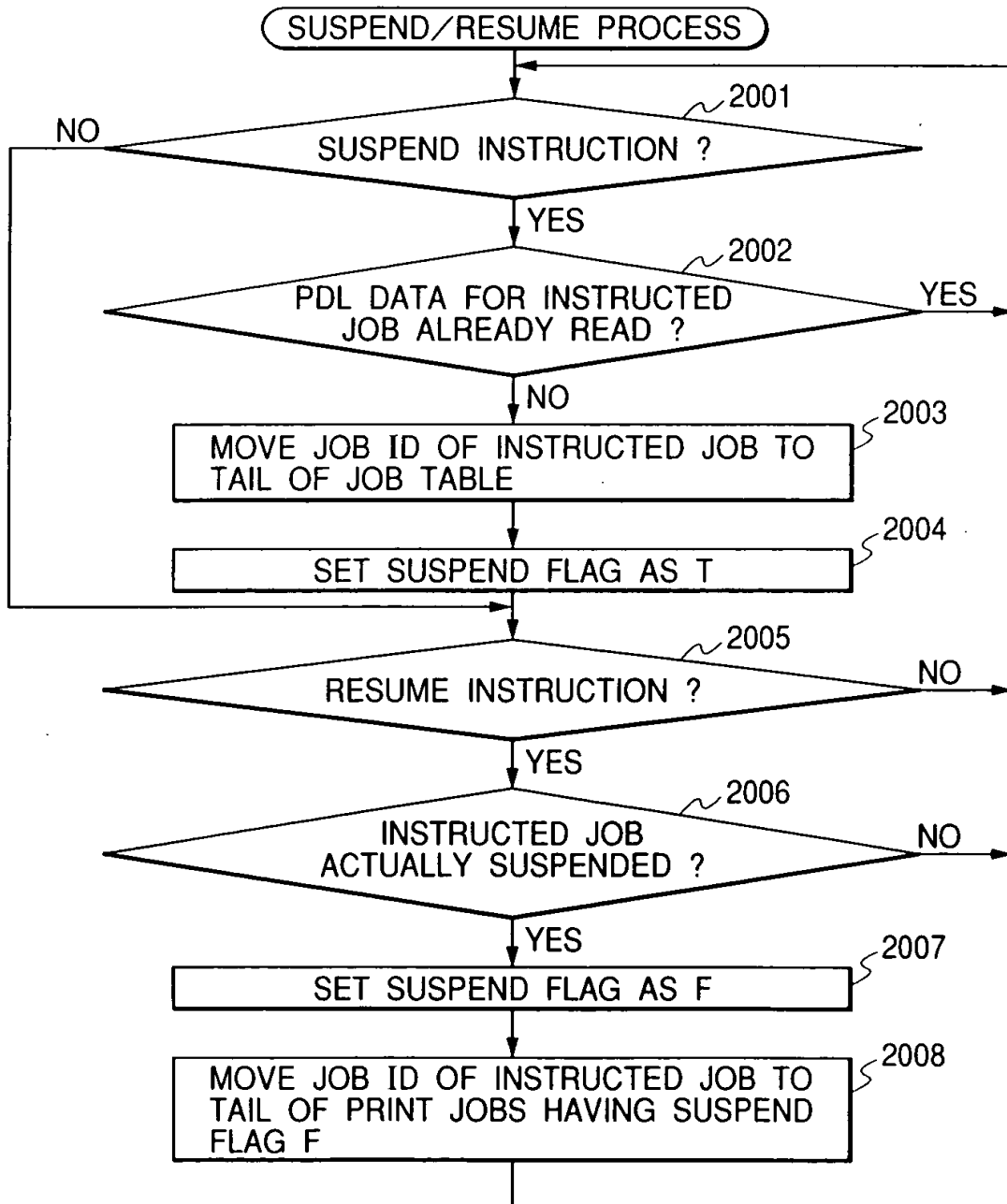


FIG. 21

JOB ID	SUSPEND FLAG
1	F
2	F
3	F
4	F

21-1

JOB ID	SUSPEND FLAG
1	F
2	F
3	F
4	F
5	T

SUSPENDED
JOB 5 ADDED

21-2

JOB ID	SUSPEND FLAG
5	T

JOBS 1, 2, 3 AND 4
COMPLETED

21-3

SECRET 9000460

FIG. 22

JOB ID	SUSPEND FLAG
1	F
2	F
3	F
4	F

22-1

JOB ID	SUSPEND FLAG
1	F
2	F
3	F
4	F
3	T

JOB 3 CHANGED
TO SUSPENDED
JOB

22-2

JOB ID	SUSPEND FLAG
1	F
2	F
4	F
3	T

22-3

FIG. 23

JOB ID	SUSPEND FLAG
1	F
2	F
3	T
4	F

23-1

JOB ID	SUSPEND FLAG
2	F
3	T
4	F

23-2

JOB ID	SUSPEND FLAG
2	F
3	F
4	F

23-3

FIG. 24

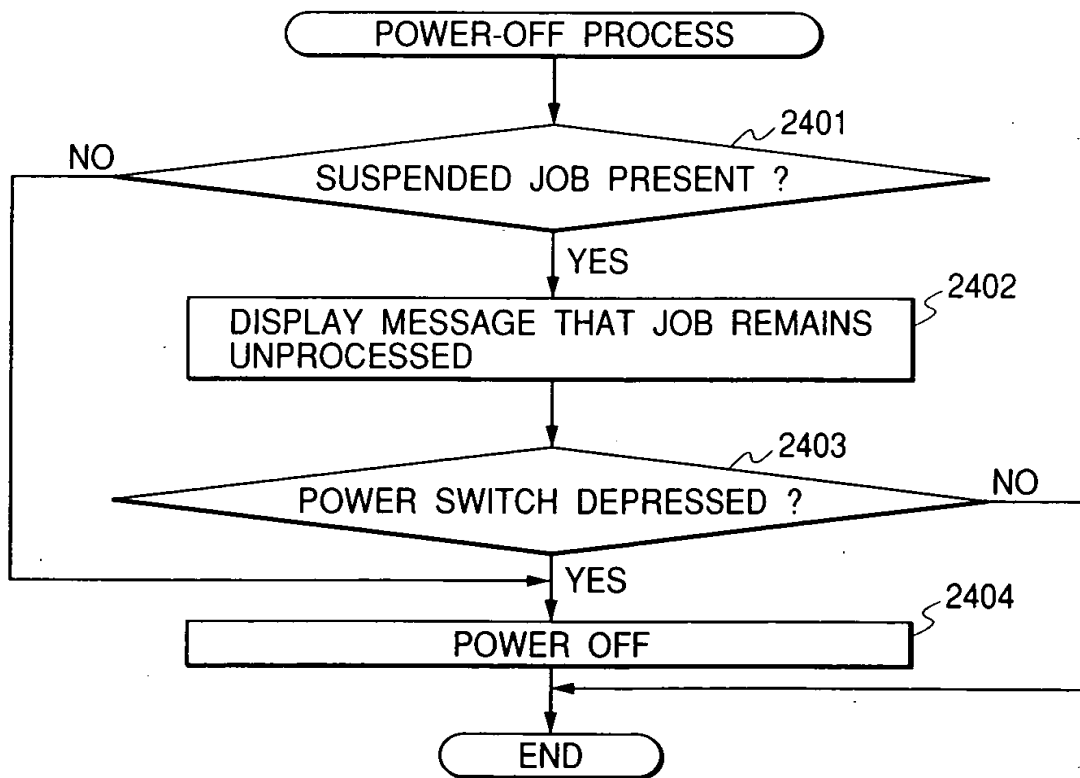


FIG. 25

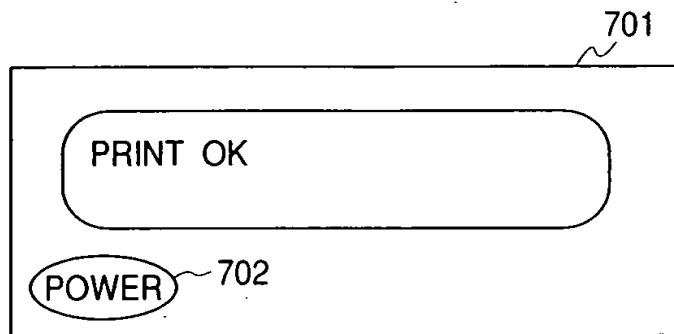


FIG. 26

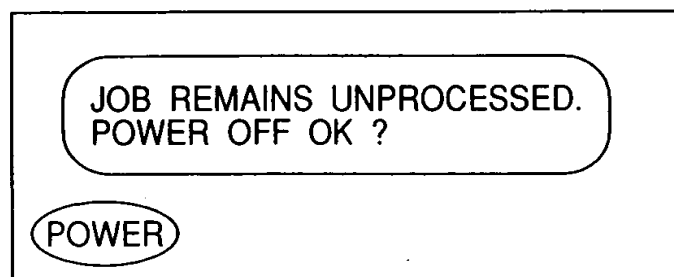


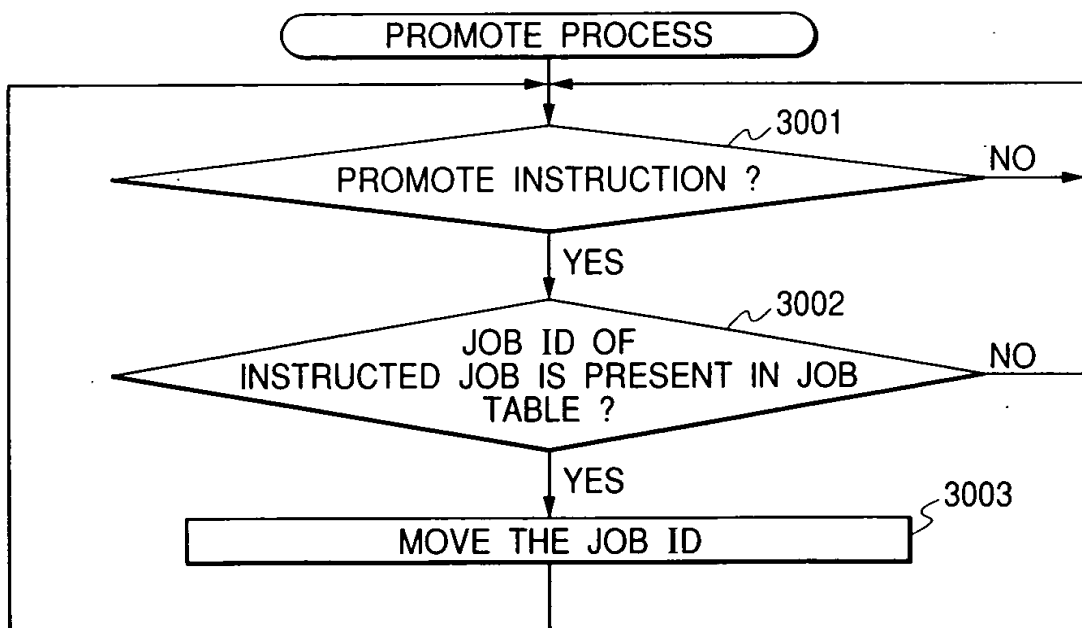
FIG. 27

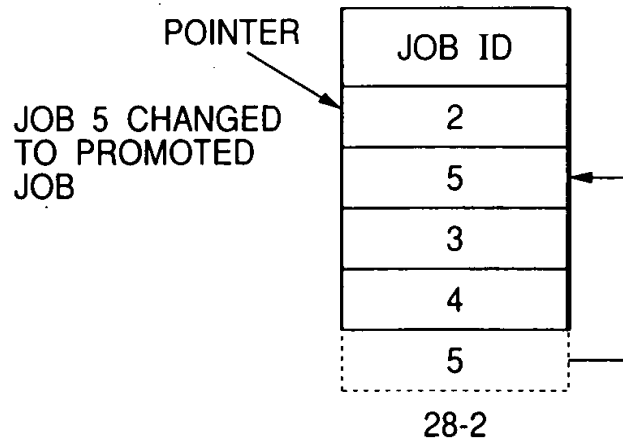
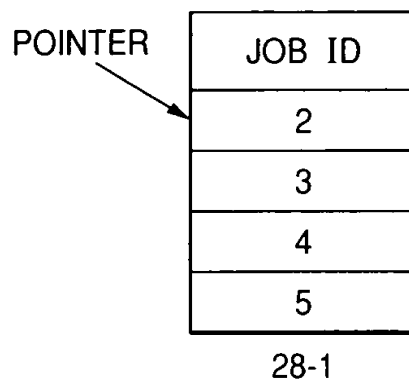
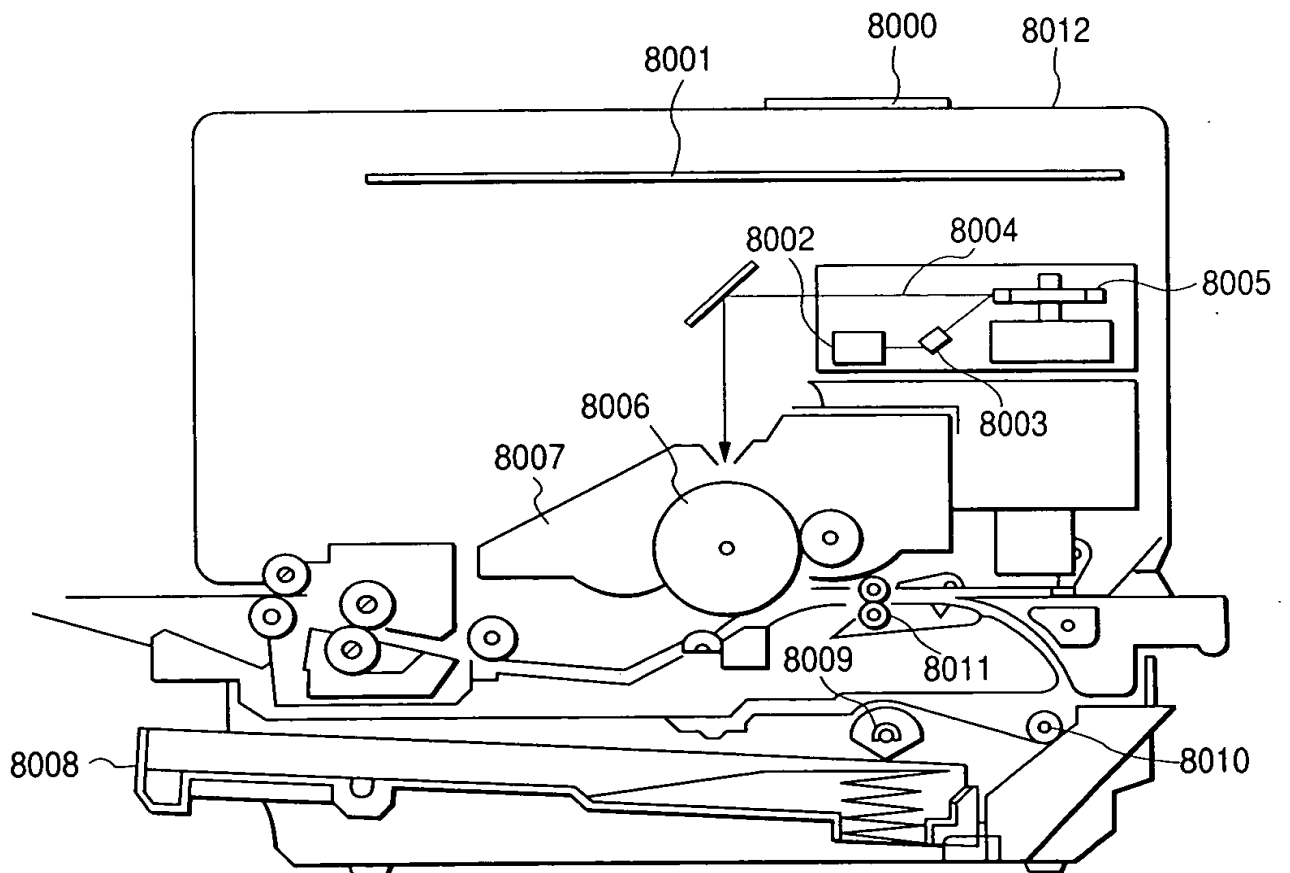
FIG. 28

FIG. 29



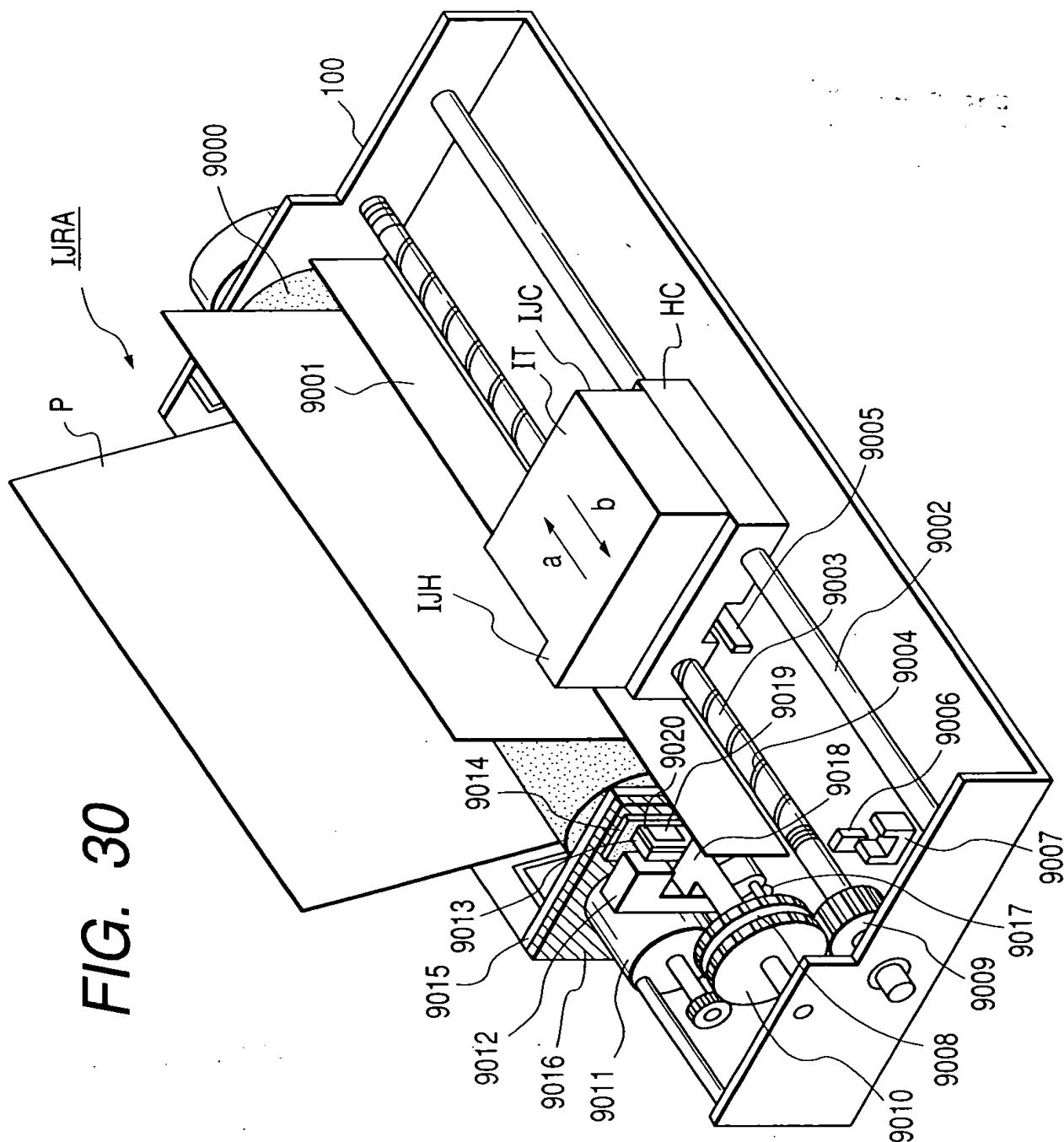


FIG. 31

FOR PRINTER
CONTROL PROGRAM FOR I/F DRIVER
CONTROL PROGRAM FOR LOGIC CHANNEL CONTROLLER
CONTROL PROGRAM FOR JOB PRE-PROCESSOR
CONTROL PROGRAM FOR PDL TRANSLATOR
CONTROL PROGRAM FOR INTERRUPT PROCESSOR
CONTROL PROGRAM FOR SUSPEND/RESUME PROCESSOR
CONTROL PROGRAM FOR PROMOTE PROCESSOR
CONTROL PROGRAM FOR INFORMATION MANAGER
CONTROL PROGRAM FOR DRAWER
CONTROL PROGRAM FOR PRINTER ENGINE
CONTROL PROGRAM FOR OPERATION PANEL
CONTROL PROGRAM FOR FLOWCHART OF FIG. 7
CONTROL PROGRAM FOR FLOWCHART OF FIG. 9
CONTROL PROGRAM FOR FLOWCHART OF FIG. 11
CONTROL PROGRAM FOR FLOWCHART OF FIG. 15
CONTROL PROGRAM FOR FLOWCHART OF FIG. 18
CONTROL PROGRAM FOR FLOWCHART OF FIG. 20
CONTROL PROGRAM FOR FLOWCHART OF FIG. 24
CONTROL PROGRAM FOR FLOWCHART OF FIG. 27
OTHER CONTROL PROGRAM

FOR HOST COMPUTER
CONTROL PROGRAM FOR I/F DRIVER
CONTROL PROGRAM FOR LOGIC CHANNEL CONTROLLER
CONTROL PROGRAM FOR PRINTER DRIVER
CONTROL PROGRAM FOR APPLICATION
CONTROL PROGRAM FOR JOB PACKET GENERATOR
CONTROL PROGRAM FOR UTILITY
CONTROL PROGRAM FOR FLOWCHART OF FIG. 5
CONTROL PROGRAM FOR FLOWCHART OF FIG. 6

FIG. 32

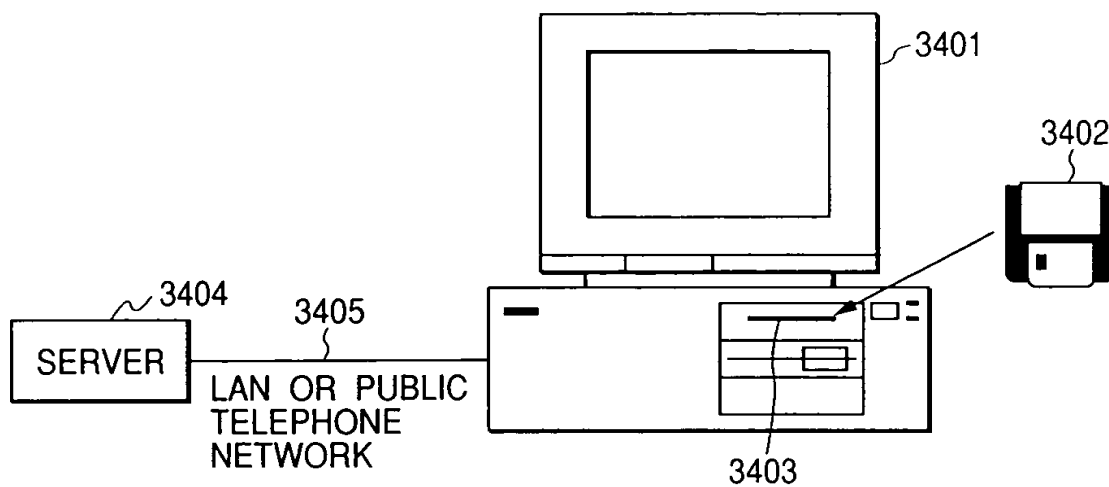


FIG. 34

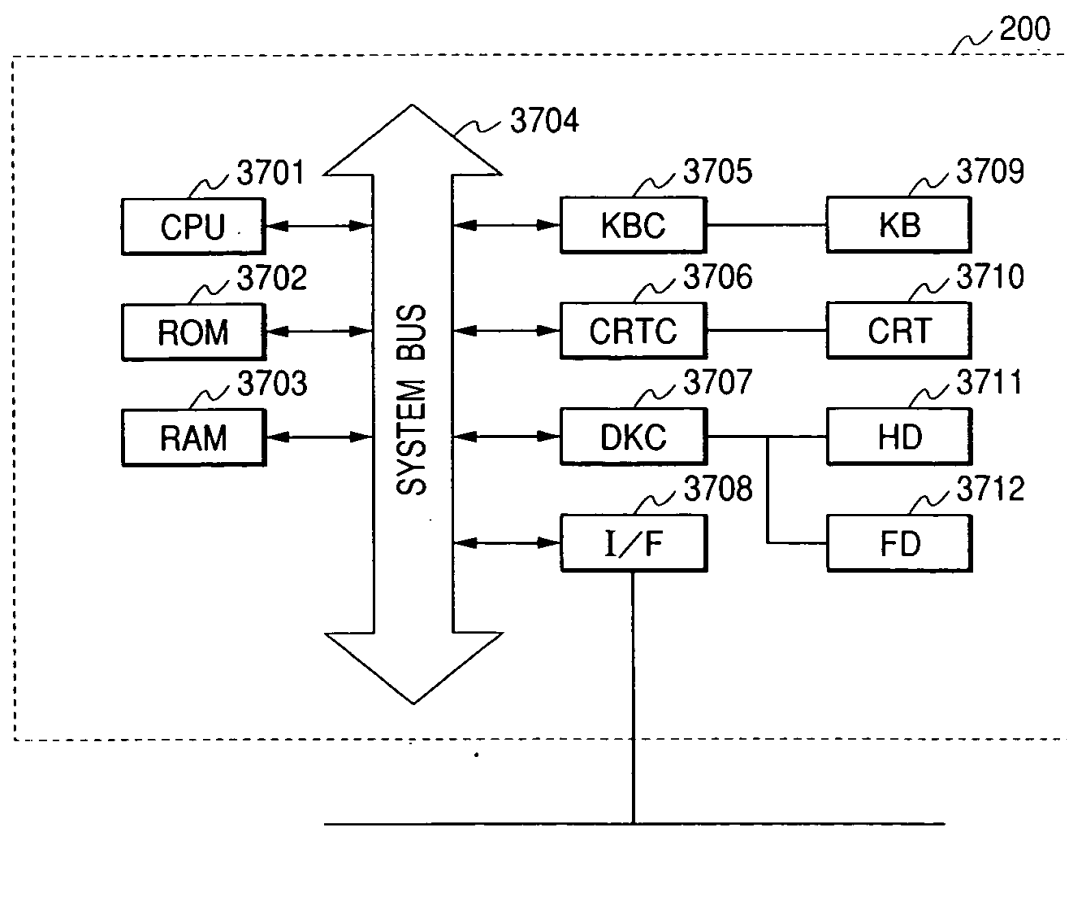


FIG. 33

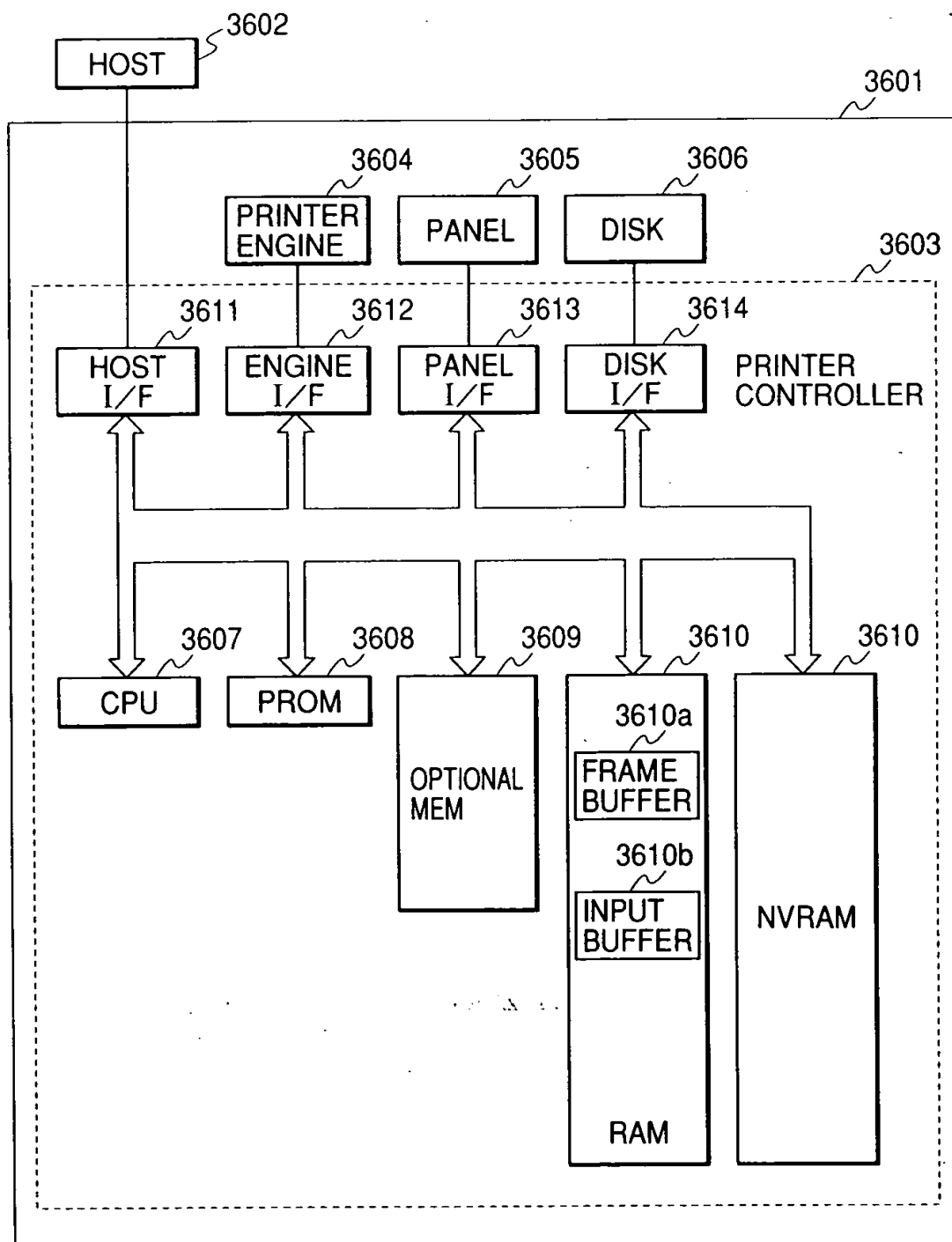


FIG. 35

JOB ID	STATUS	PAGE BUFFER	ANALYSIS INFORMATION	OUTPUT INFORMATION	NETWORK
1	OUTPUTTING	100000		10000	
2	WAITING FOR OUTPUT	180000			111.22.33.44
3	ANALYZING		11000		111.22.33.47

MANAGEMENT TABLE

100000	RULE	START	END	LINE THICKNESS	100010
CHR	FONT NAME	START	NO. OF CHRS		
CHR CODE					
100050	RECTANGLE	START	END	LINE THICKNESS	100060

FIG. 36

INTERMEDIATE DATA IN DRAW BUFFER

FIG. 37

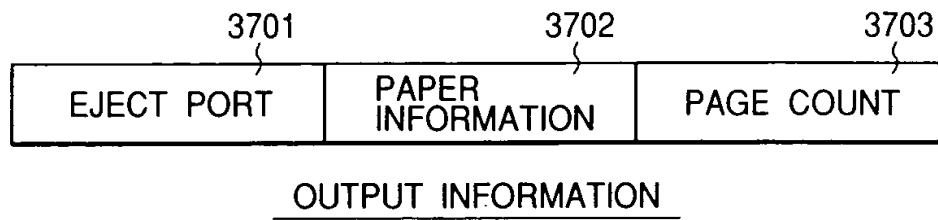


FIG. 39

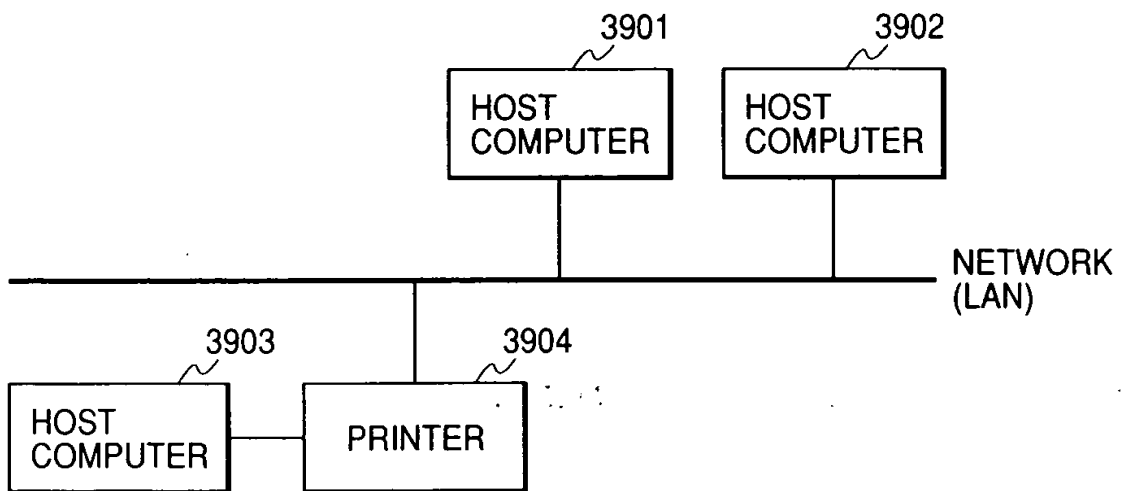


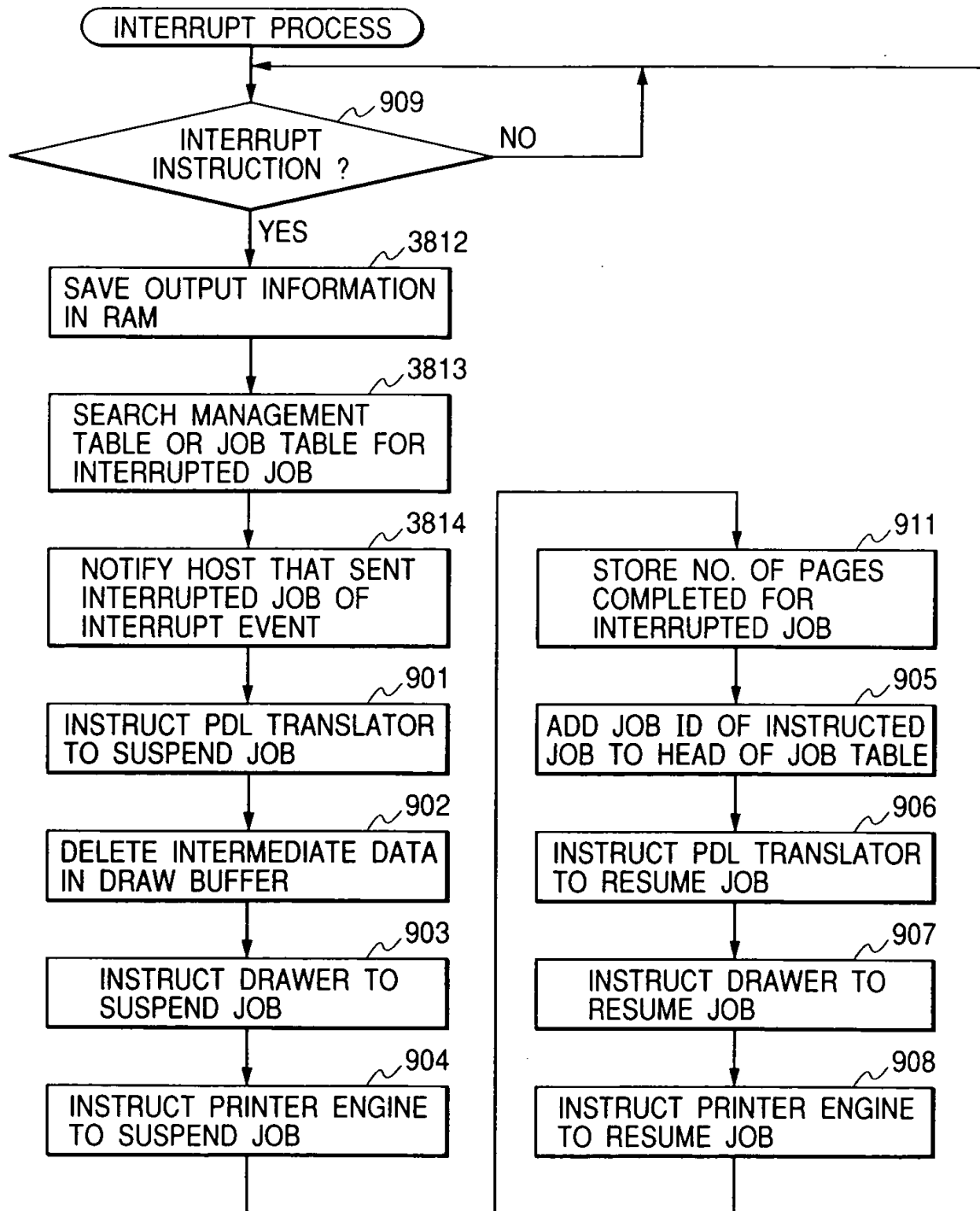
FIG. 38

FIG. 40

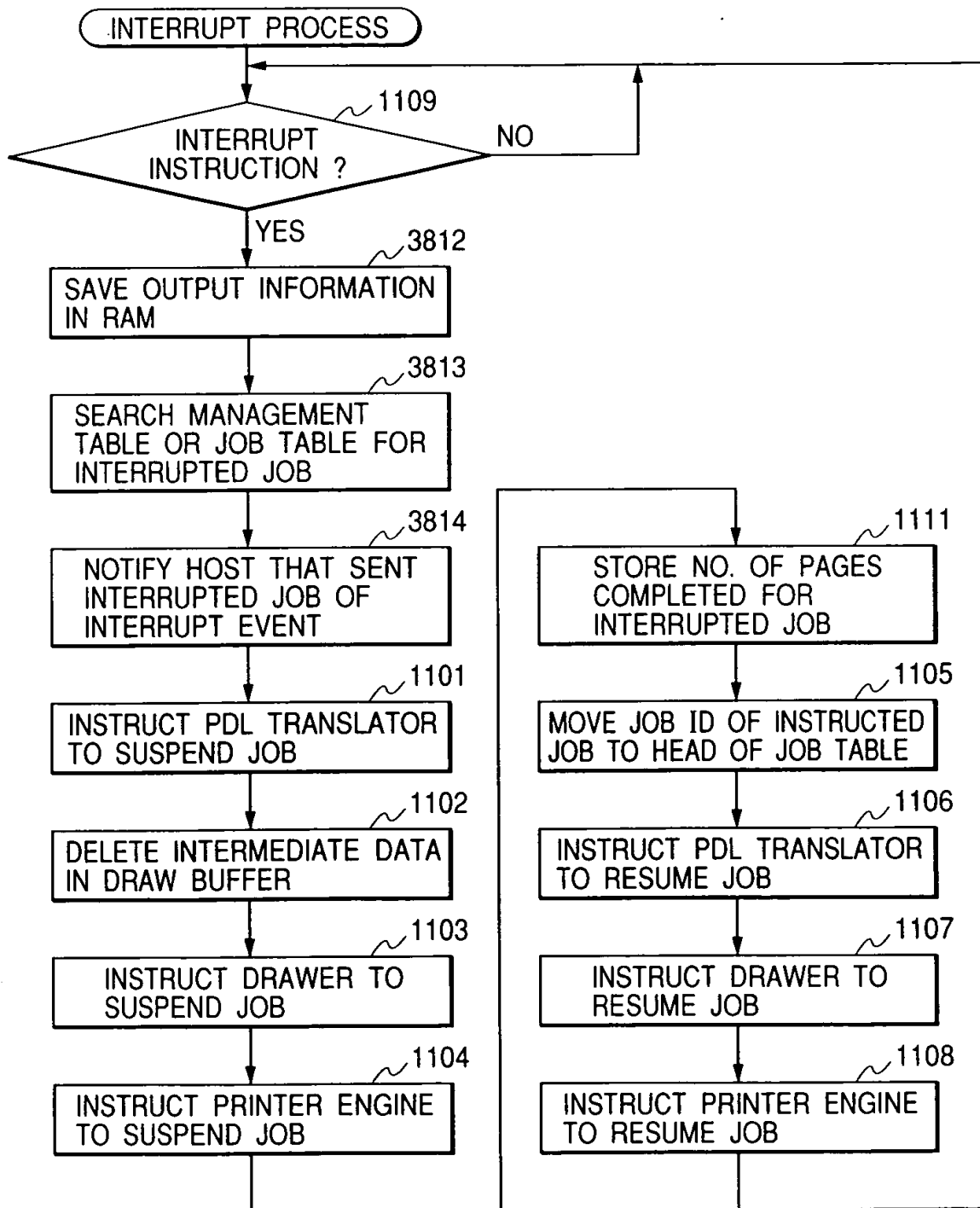


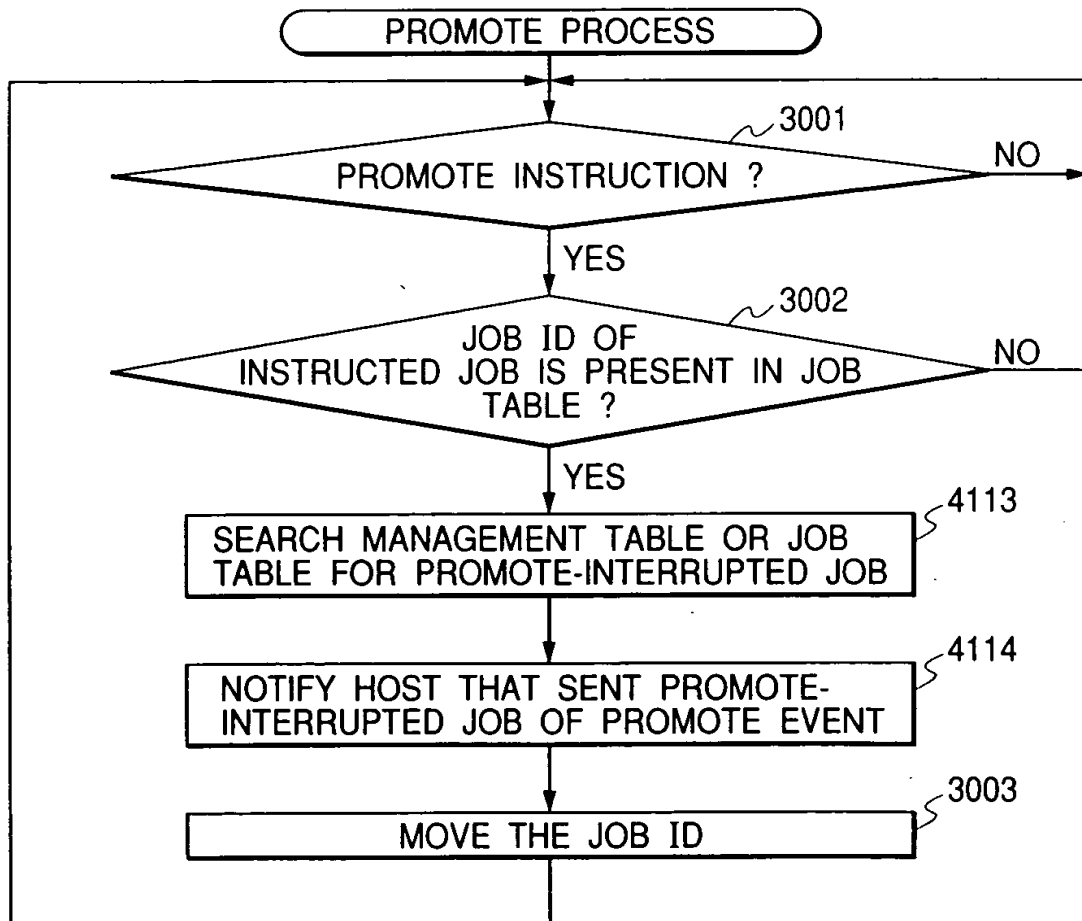
FIG. 41

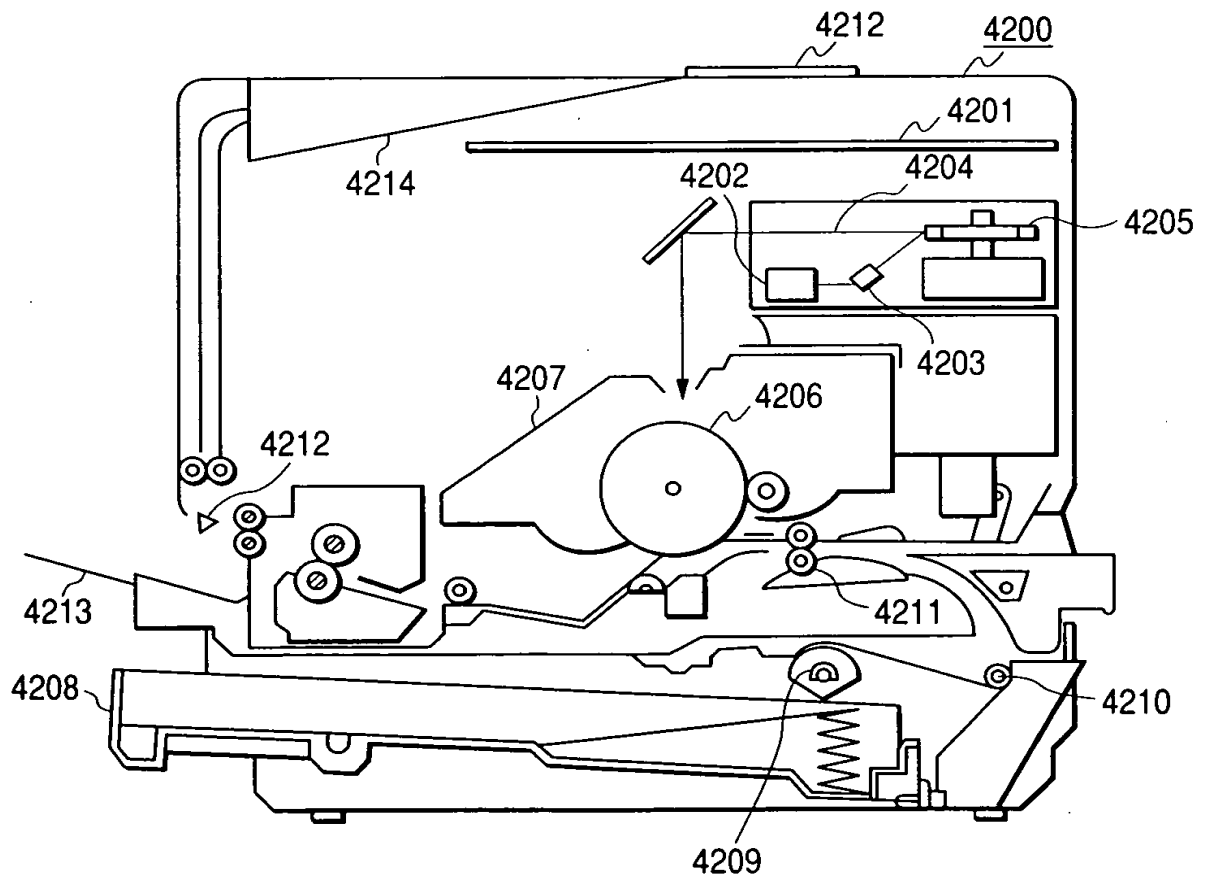
FIG. 42

FIG. 43

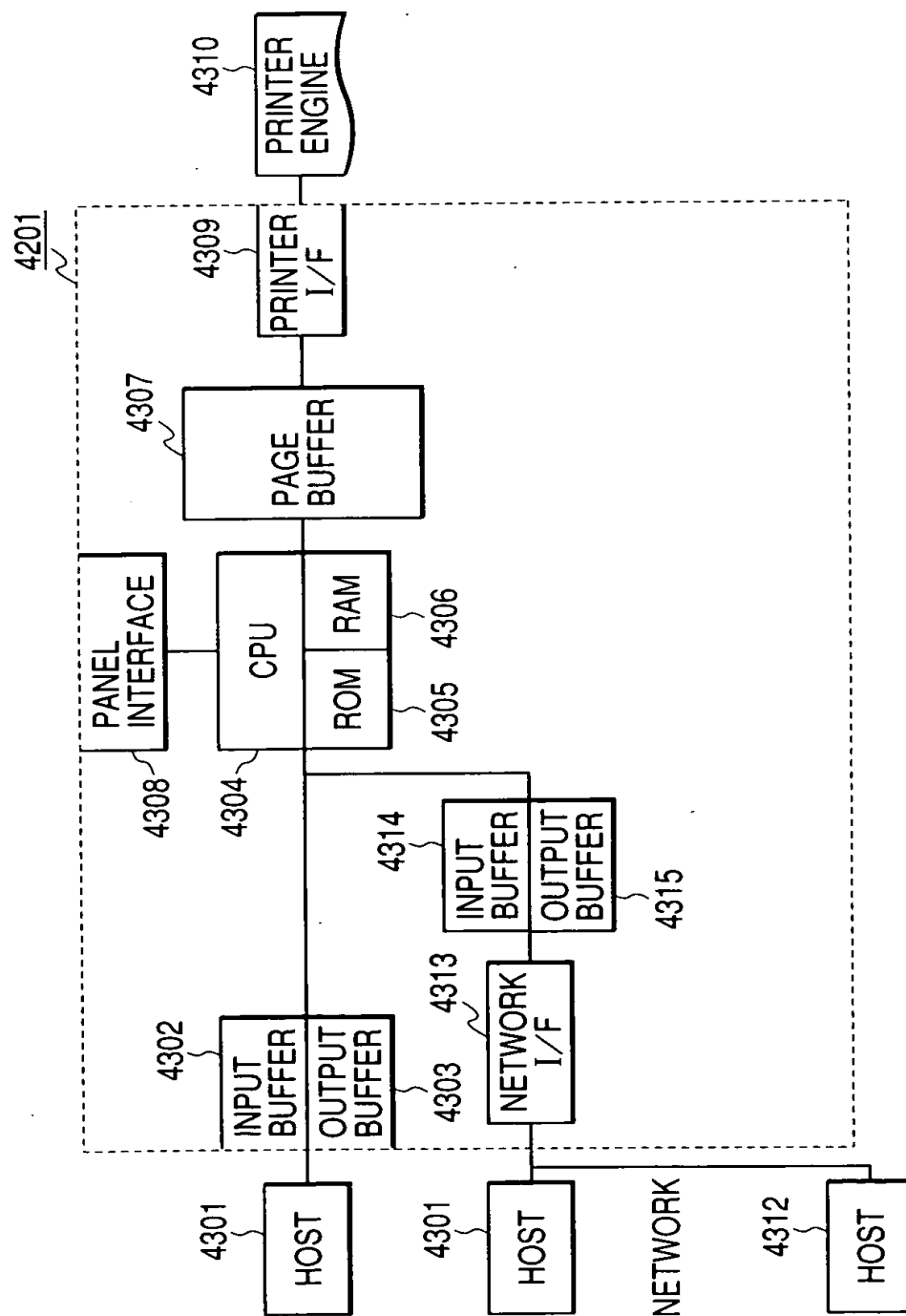


FIG. 44

JOB ID	STATUS	PAGE BUFFER	ANALYSIS INFORMATION	OUTPUT INFORMATION	NETWORK
1	OUTPUTTING	100000		10000	
2	WAITING FOR OUTPUT	180000			111.22.33.44
3	ANALYZING		11000		111.22.33.47

4407 4408 4409

MANAGEMENT TABLE

FIG. 45

ESC	PRO	OUTPUTTING/WAITING FOR OUTPUT/ANALYZING
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INTERRUPT COMMAND

FIG. 46

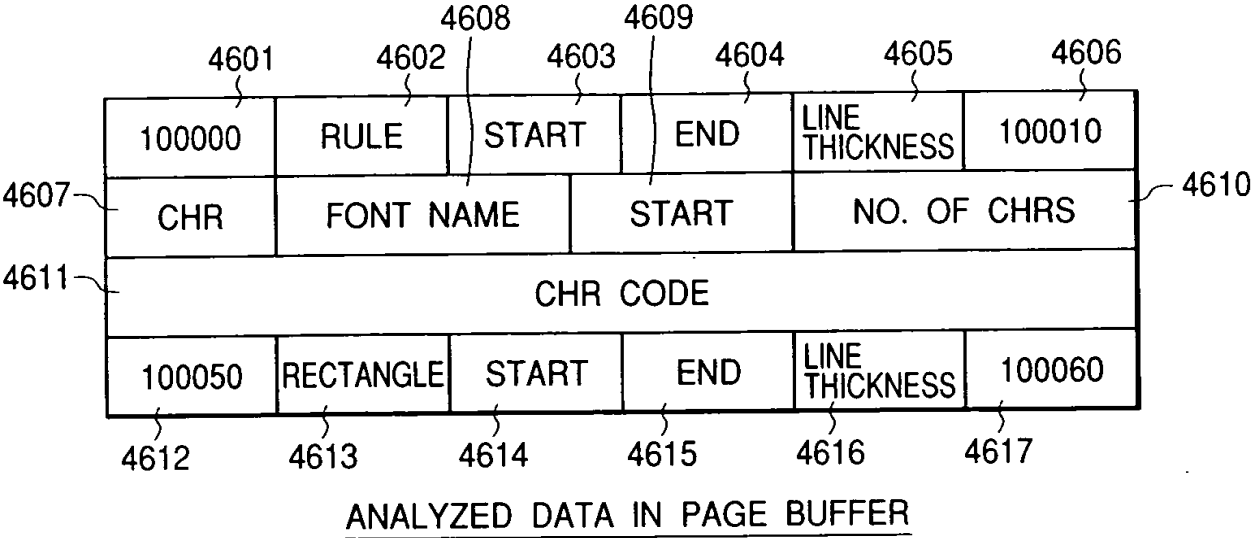


FIG. 47

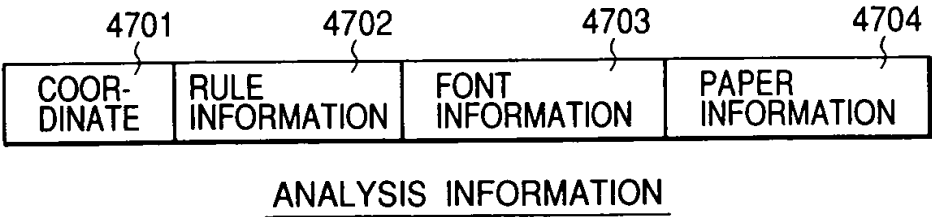


FIG. 48

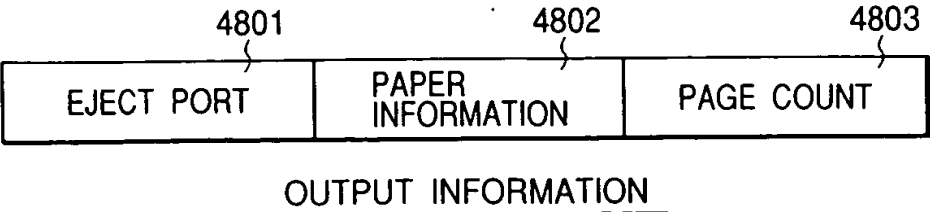


FIG. 49

FIG. 49A

FIG. 49B

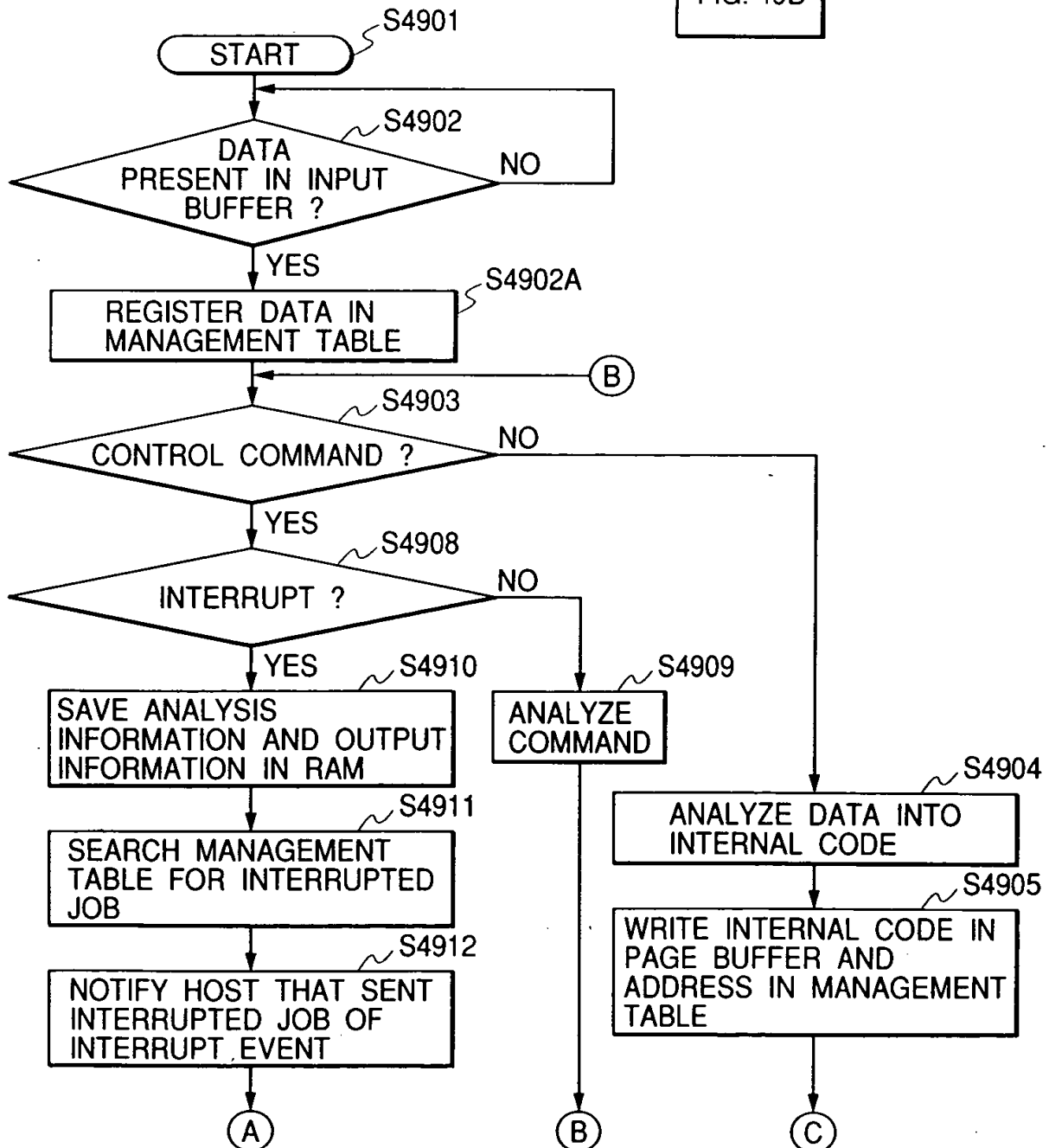


FIG. 49B

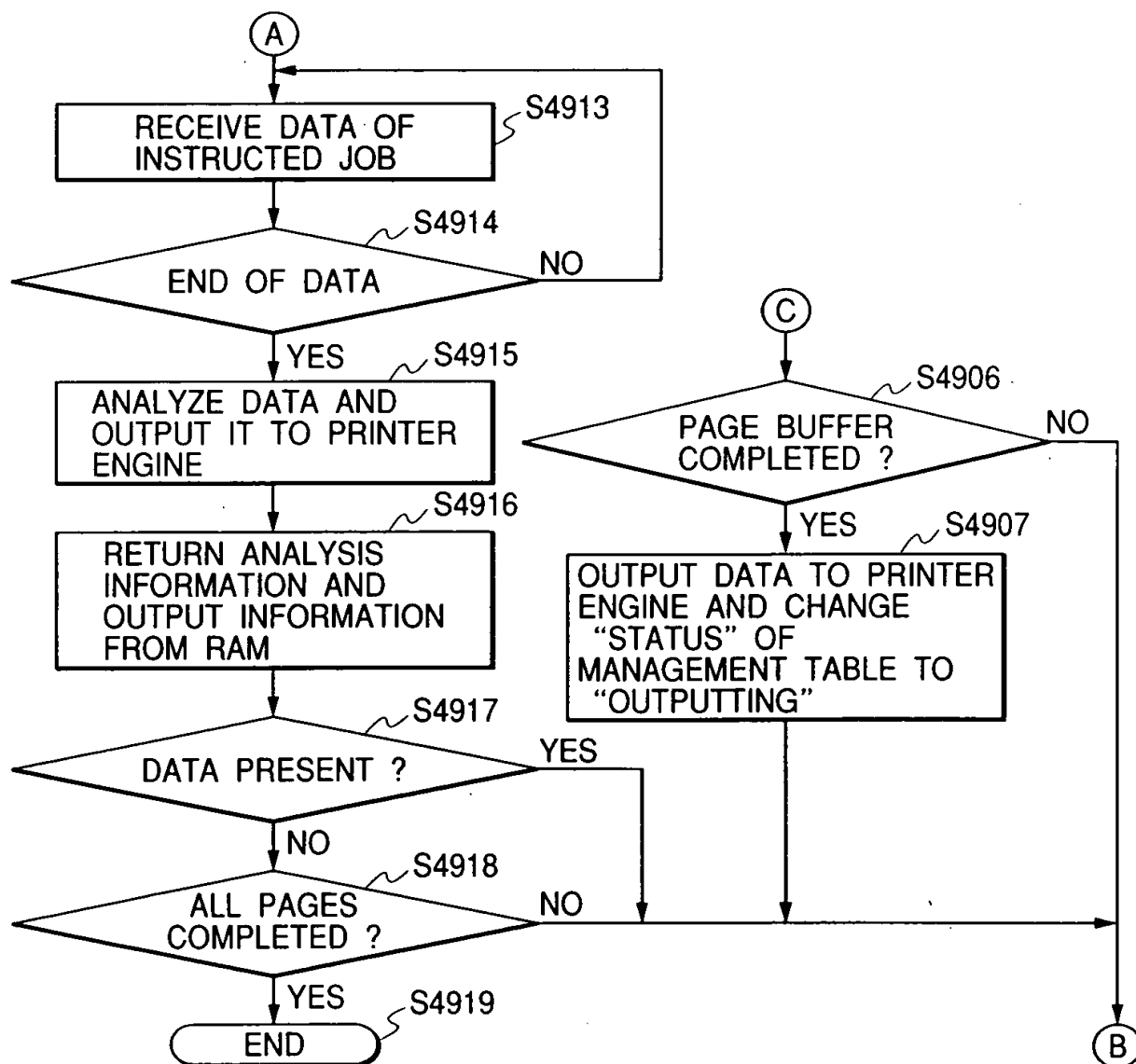
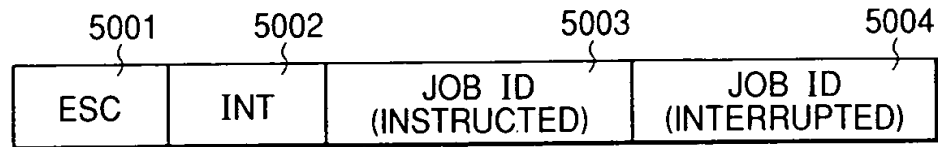


FIG. 50INTERRUPT COMMAND**FIG. 51**